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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/035,677	12/28/2001	Daniel Tatarka	05788.0180	4632
75	590 03/16/2004		EXAMINER	
Finnegan, Henderson, Farabow,			BARBER, THERESE	
Garrent & Duni	ner, L.L.P.			
1300 I Street, N	I.W.		ART UNIT	PAPER NUMBER
Washington, D	C 20005-3315		2882	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/035,677	TATARKA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Therese Barber	2882	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by set any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, may a in. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on			
, , , , , , , , , , , , , , , , , , , 	This action is non-final.		
 Since this application is in condition for all closed in accordance with the practice und 	·	•	
Disposition of Claims			
4)	ndrawn from consideration. re rejected. ected to.		
Application Papers			
9) The specification is objected to by the Exa	miner.		
10)⊠ The drawing(s) filed on <u>01 April 2002</u> is/are	e: a) accepted or b) obje	cted to by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	-).
11) The oath or declaration is objected to by the	e Examiner. Note the attache	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a 	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(c)			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview 9	Summary (PTO-413)	
 Notice of References Cited (FTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 	Paper No(s)/Mail Date nformal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3, 4, 8, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Cooper et al. (USPN 4,550,976).
- 3. Regarding claims 1, 3, 4, 8, 10 and 11, Cooper discloses an optical fiber cable comprised of a central strength member (8; fig. 1); a buffer tube stranded around the central strength member, the buffer housing at least one optical fiber (4); a first conduit (7) configured to receive at least one first blown optical fiber and positioned external to the central strength member (col. 2, lines 34-46); an outer jacket positioned at the periphery of the optical fiber cable (2); wherein the central strength member is solid (col. 2, lines 20-27); wherein an inner jacket (3) is positioned inside the outer jacket and surrounds at least the central strength member and the buffer tube (col. 2, lines 56-58); wherein the first conduit (7) is positioned inside the inner jacket (fig. 1); wherein the central strength member includes reinforcing elements (col. 2, lines 20-27); and wherein a water blocking layer surrounds the central strength member (9).

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper and Sutehall (WO 02/12943 A1).
- 6. Regarding claim 2, Cooper discloses an optical fiber cable comprised of a central strength member (8); a buffer tube stranded around the central strength member, the buffer housing at least one optical fiber (4); a first conduit (7) configured to receive at least one first blown optical fiber and positioned external to the central strength member (col. 2, lines 34-46); and an outer jacket positioned at the periphery of the optical fiber cable (2; fig. 1).

Cooper fails to disclose that the central strength member includes a bore configured to receive at least one central blown optical fiber.

Sutehall discloses an optical fiber cable comprised of a central strength member that is tubular (page 4, lines 20-22), wherein the tubular central strength member reduces the weight per unit length of the cable while increasing its stiffness and the distance to which a cable may be blown (page 5, lines 1-6). In addition, Sutehall discloses that the tubular central strength member can accommodate a tube that housing a plurality of optical fibers (130), empty tubes that have an optical fiber blown into the empty tubes, thereby, increasing the number of the optical

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fibers in the cable without increasing its diameter (140); or electrically conductive member that is accommodated within and extends along the length of the passage (150; page 5, line 16 to page 6, line 9).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the optical fiber cable with its central strength member as disclosed by Cooper to include the tubular central strength member as disclosed by Sutehall, thereby, forming a tubular central strength member that can accommodate an increase in the number of optical fibers, thereby, making the optical fiber cable more cost-effective to utilize for future expansion and to manufacture.

- 7. Claims 14, 16, 17, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper and Sadler (USPN 5,214,733).
- 8. Regarding claims 14, 16, 17, 19 and 21, Cooper discloses an optical fiber cable comprised of a central strength member (8); a buffer tube stranded around the central strength member, the buffer housing at least one optical fiber (4); a first conduit (7) configured to receive at least one first blown optical fiber and positioned external to the central strength member (col. 2, lines 34-46); an outer jacket positioned at the periphery of the optical fiber cable (2; fig. 1); wherein the central strength member is solid (col. 2, lines 20-27); wherein an inner jacket (3) is positioned inside the outer jacket and surrounds at least the central strength member and the buffer tube (col. 2, lines 56-58); wherein the first conduit (7) is positioned inside the inner jacket (fig. 1); wherein the central strength member includes reinforcing elements (col. 2, lines 20-27); and wherein a water blocking layer surrounds the central strength member (9).

Cooper fails to discloses wherein a conductor of electrical energy is stranded around the central strength member.

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Sadler discloses an optical fiber duct for receiving optical fiber member(s) by blowing (col. 1, lines 18-27) wherein the duct is formed of plastic material that is electrically conductive or has an electrically conductive material applied to the plastic material (col. 1, lines 62-36 and col. 2, lines 38-62), in order, to dissipate the static electrical charge builds up on the inside wall of the duct, impeding the progress of the optical fiber during the installation of the optical fibers by blowing.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the optical fiber cable with its central strength member as disclosed by Cooper to include the electrically conductive material as disclosed by Sadler, thereby forming an optical fiber having a central strength member that is surrounded by an electrically conductive material which can dissipate the build-up of static electricity, which could impede the progress of the optical fiber as it is being installed by blowing.

- 9. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper and Sadler as applied to claim 14 above, and further in view of Sutehall.
- 10. Regarding claim 15, combination of Cooper and Sadler disclose an optical fiber cable comprised of a central strength member surrounded by an electrically conductive material; a first conduit configured to receive at least one first blown optical fiber and positioned external to the central strength member; and an outer jacket positioned at the periphery of the optical fiber cable.



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Cooper and Sadler fail to disclose that the central strength member includes a bore configured to receive at least one central blown optical fiber.

Sutehall discloses an optical fiber cable comprised of a central strength member that is tubular (page 4, lines 20-22), wherein the tubular central strength member reduces the weight per unit length of the cable while increasing its stiffness and the distance to which a cable may be blown (page 5, lines 1-6). In addition, Sutehall discloses that the tubular central strength member can accommodate a tube that housing a plurality of optical fibers (130), empty tubes that fiber have an optical blown into it, thereby, increasing the number of the optical fibers in the cable without increasing its diameter (140); or electrically conductive member that is accommodated within and extends along the length of the passage (150; page 5, line 16 to page 6, line 9).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the optical fiber cable with its central strength member as disclosed by Cooper and Sadler to include the tubular central strength member as disclosed by Sutehall, thereby, forming an optical fiber cable having a tubular central strength member that is electrically conductive and that can accommodate an increase in the number of optical fibers in the cable, thereby, making the optical fiber cable more cost-effective to utilize for future expansion and to manufacture.

Allowable Subject Matter

11. Claims 5-7, 9, 12-13, 18, and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.



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Regarding claims 5-7, 9 and 12-13, the prior art fails to teach or to reasonably disclose an optical fiber cable comprised of a central member, a buffer tube stranded around the central strength member, wherein the first conduit positioned outside the inner jacket that surrounds the central member and buffer and wherein an outer strength member is parallel to the central strength member and inside the outer jacket, as set forth in the claimed combination.

Regarding claims 18 and 20, the prior art fails to teach or to reasonably disclose an optical fiber cable comprised of an electrical conductor surrounding the central strength member; wherein the first conduit positioned outside the inner jacket that surrounds the central member and buffer and wherein an outer strength member is parallel to the central strength member and inside the outer jacket, as set forth in the claimed combination, as set forth in the claimed combination.



Response to Amendment

12. The response has been fully considered by the examiner but has been deemed nonpersuasive. The examiner recognizes that a gas or compressed air is utilize to propel optical
fiber(s) along a duct during blown cable installation. Therefore, the examiner maintains that the
empty or hollow "dummy tube" as disclosed by Cooper can be utilized for blown cable
installation because a gas or compressed air can be utilize to propel optical fiber(s) through the
empty or hollow tubes. In addition, the claim language "subsequent to an installation of the
cable" cannot be found in the specification. The examiner respectfully requests that the
applicants point out where this terminology is utilized in the specification.

Conclusion

13. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Therese Barber whose telephone number is (571) 272-2486. The examiner can normally be reached on 8:30 a.m. to 6:30 p.m. with alternative Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tb 1 March 2004

> EDWARD J. GLICK SUPERVISORY PATENT EXAMINER